

Journal Club on Quantum Information Theory (SS 2024)

Institute for Theoretical Physics III, Prof. Dr. Bruß

Wednesdays, 12:30h – 14:30h
Seminar room 25.32.03.51

This semester speakers will present a paper related to their research or an open problem in quantum information. The numbered topics are the open problems hosted by IQOQI Vienna and can be accessed via this link:

<https://oqp.iqoqi.oeaw.ac.at/open-quantum-problems>.

Schedule		
Date	Presenter	Topic
24.4.	Yien Liang	44. Complexity of the separability problem
1.5.	—	—
8.5.	Anton Trushechkin	47. Is there bound information?
15.5.	—	—
22.5.	Julia Kunzelmann	24. Secret key from all entangled states
29.5.	Ghi Coulter-de Wit	23. SIC POVMs and Zauner's Conjecture
5.6.	Justus Neumann	12. Bell Inequalities for long range vacuum correlations
12.6.	Monika Mothsara	39. Steering bound for qubits and POVMs
19.6.	Julius Kamp	Dynamical suppression of decoherence in two-state quantum systems doi: 10.1103/PhysRevA.58.2733
26.6.	Michael Duller	Decoherence and decoherence free subspaces. Based on Chapter 3 of <i>Quantum Error Correction</i> by Lidar and Brun
3.7.	Varun Kondra	20. Reversible entanglement manipulation
10.7.	Nikolai Wyderka	13. Mutually unbiased bases
17.7.	Raphael Brinster	43. Are all extensibly causal processes purifiable?